Fig. 1

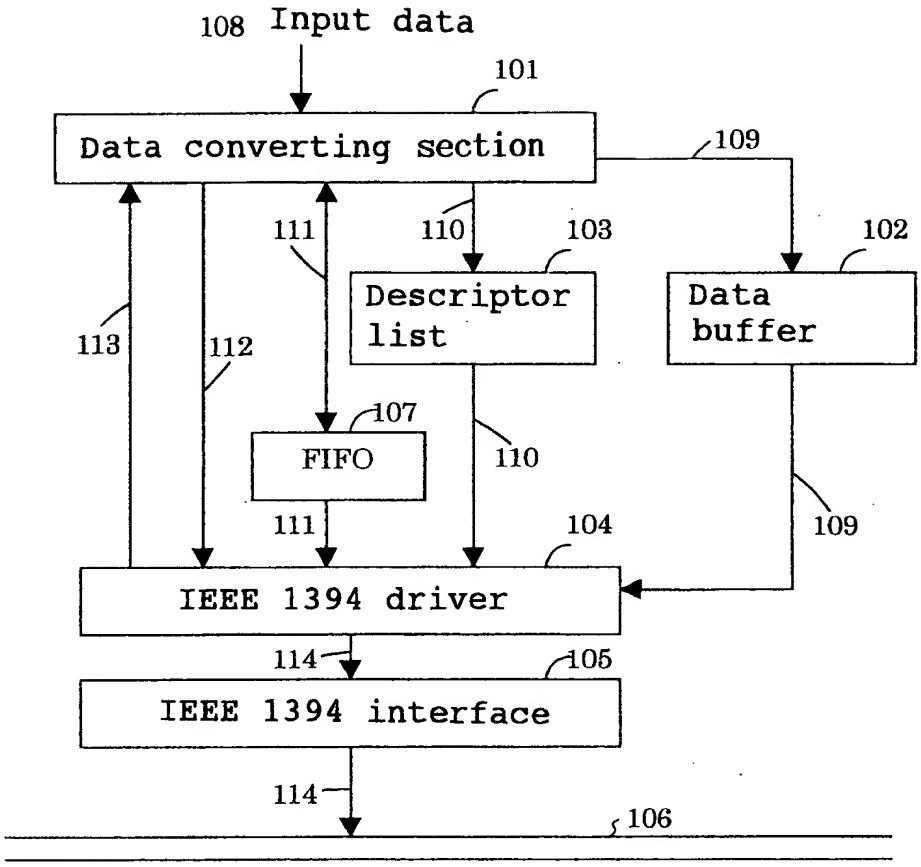

108 Input data
101
Data converting section
109
111
110
103
102
Descriptor list
Data buffer
113
112
107
FIFO
110
111
104
109
IEEE 1394 driver
114
105
IEEE 1394 interface
114
106

Fig. 2

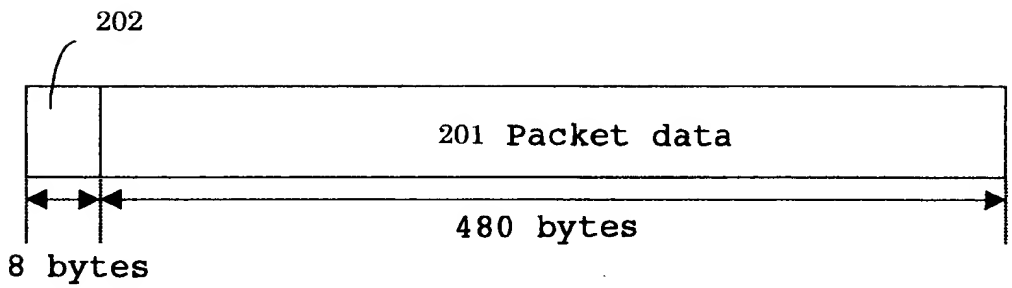


Fig. 3

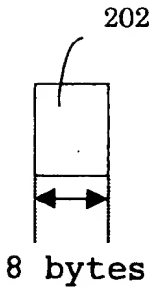


Fig. 4

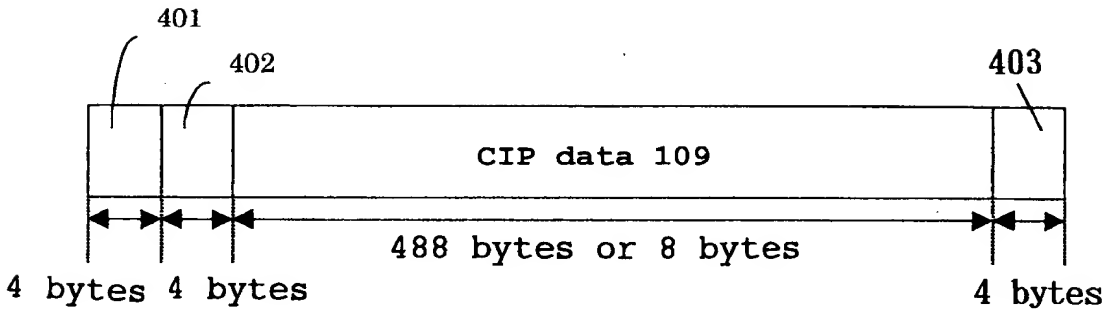


Fig. 5

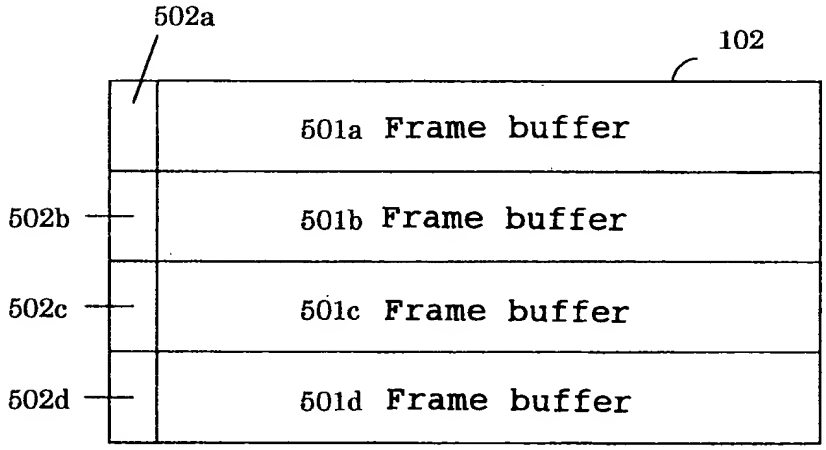


Fig. 6

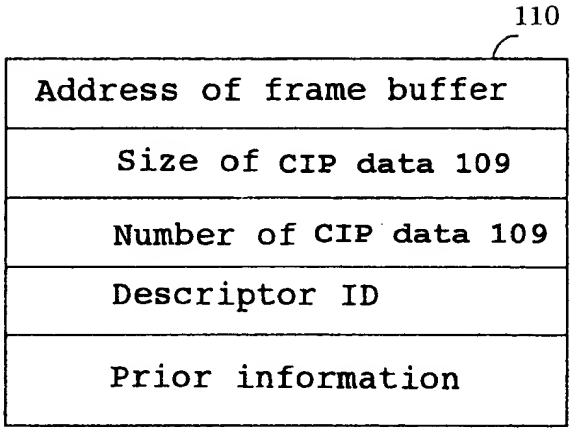

110
Address of frame buffer
Size of CIP data 109
Number of CIP data 109
Descriptor ID
Prior information

Fig. 7

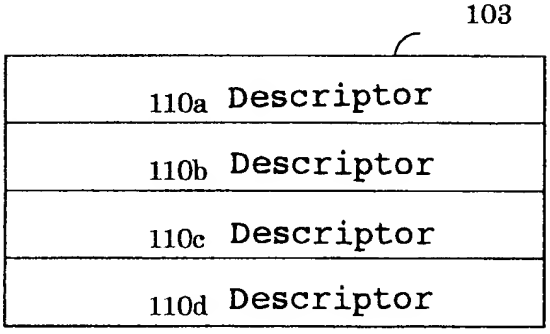

103
110a Descriptor
110b Descriptor
110c Descriptor
110d Descriptor

Fig. 8

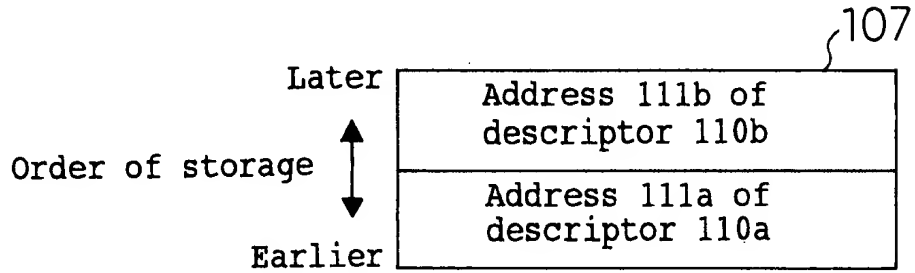

107
Later
Order of storage
Earlier
Address 111b of descriptor 110b
Address 111a of descriptor 110a

Fig. 9

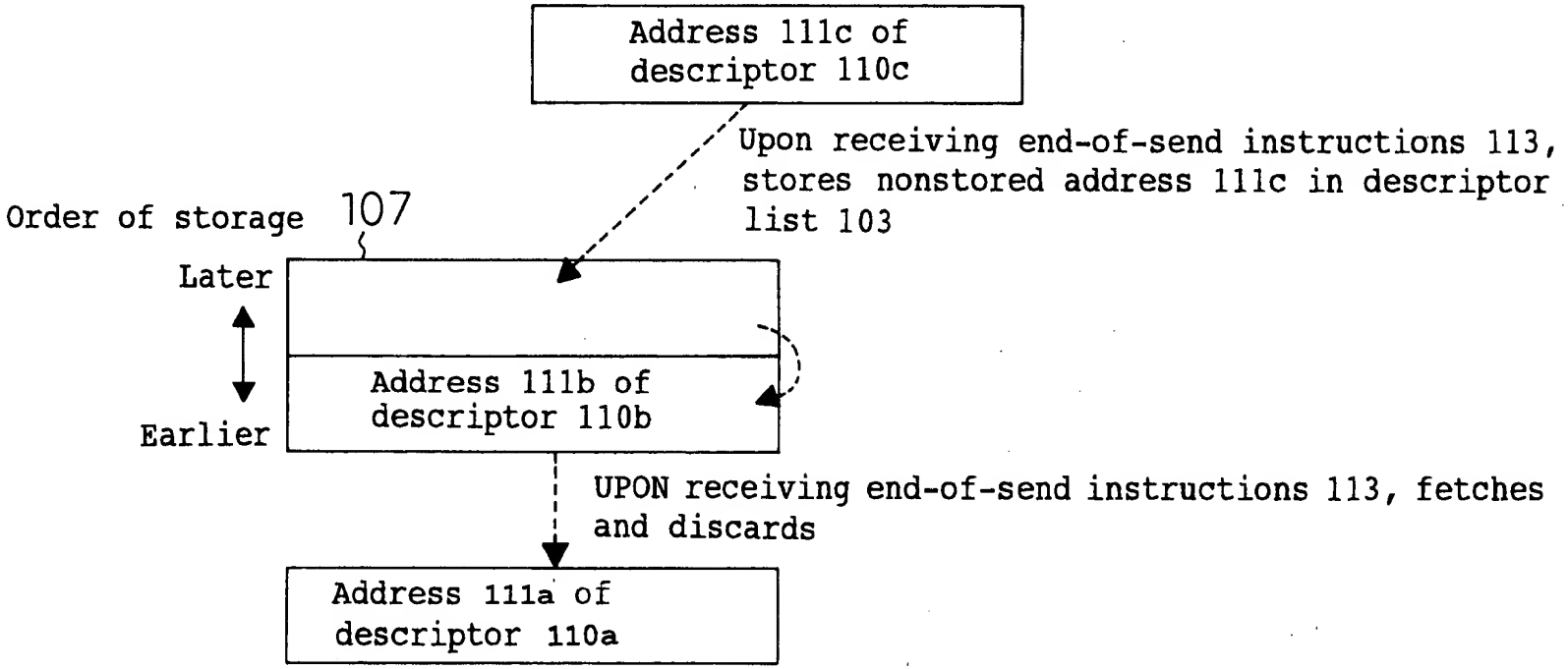

Address 111c of descriptor 110c
Upon receiving end-of-send instructions 113, stores nonstored address 111c in descriptor list 103
Order of storage
107
Later
Earlier
Address 111b of descriptor 110b
UPON receiving end-of-send instructions 113, fetches and discards
Address 111a of descriptor 110a

Fig. 10

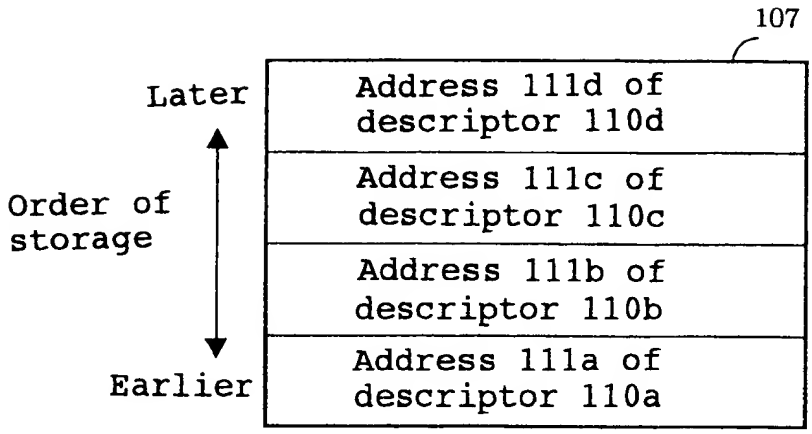

107
Later
Order of storage
Earlier
Address 111d of descriptor 110d
Address 111c of descriptor 110c
Address 111b of descriptor 110b
Address 111a of descriptor 110a

Fig. 11

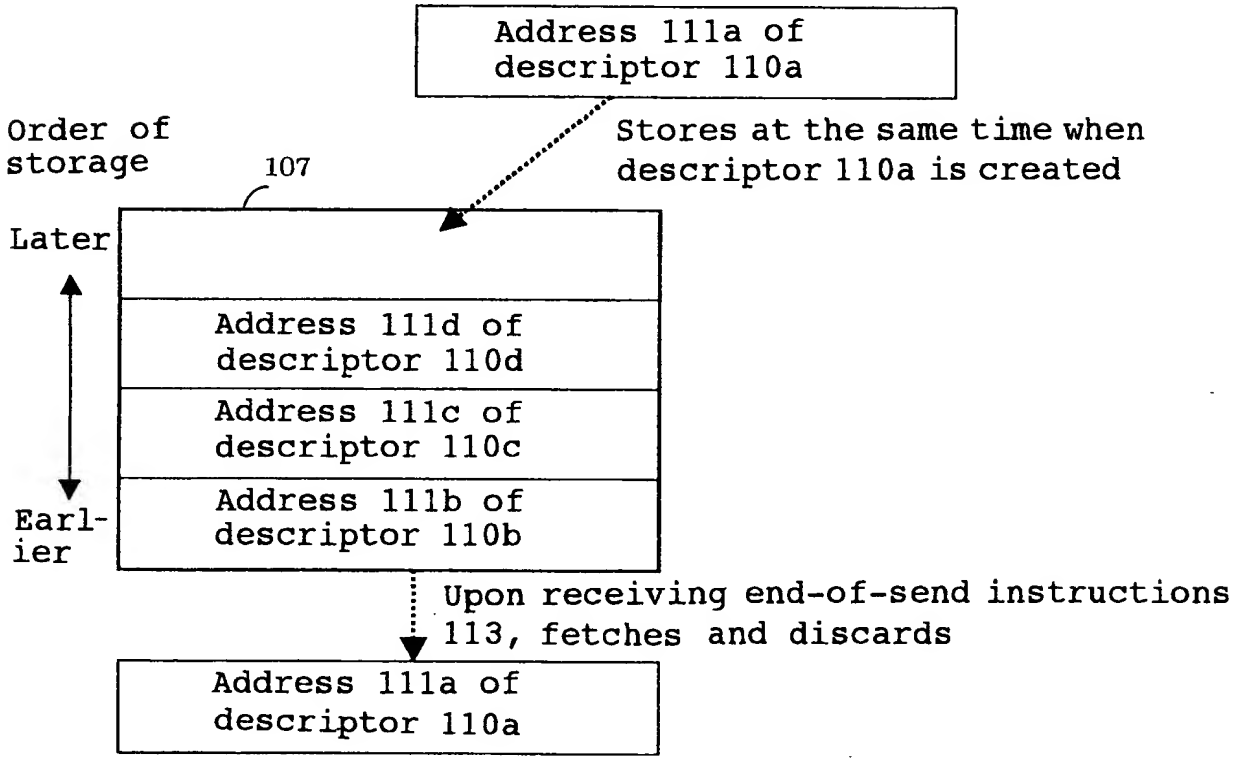

Address 111a of descriptor 110a
Order of storage
Stores at the same time when descriptor 110a is created
107
Later
Earl-ier
Address 111d of descriptor 110d
Address 111c of descriptor 110c
Address 111b of descriptor 110b
Upon receiving end-of-send instructions 113, fetches and discards
Address 111a of descriptor 110a

Fig. 12

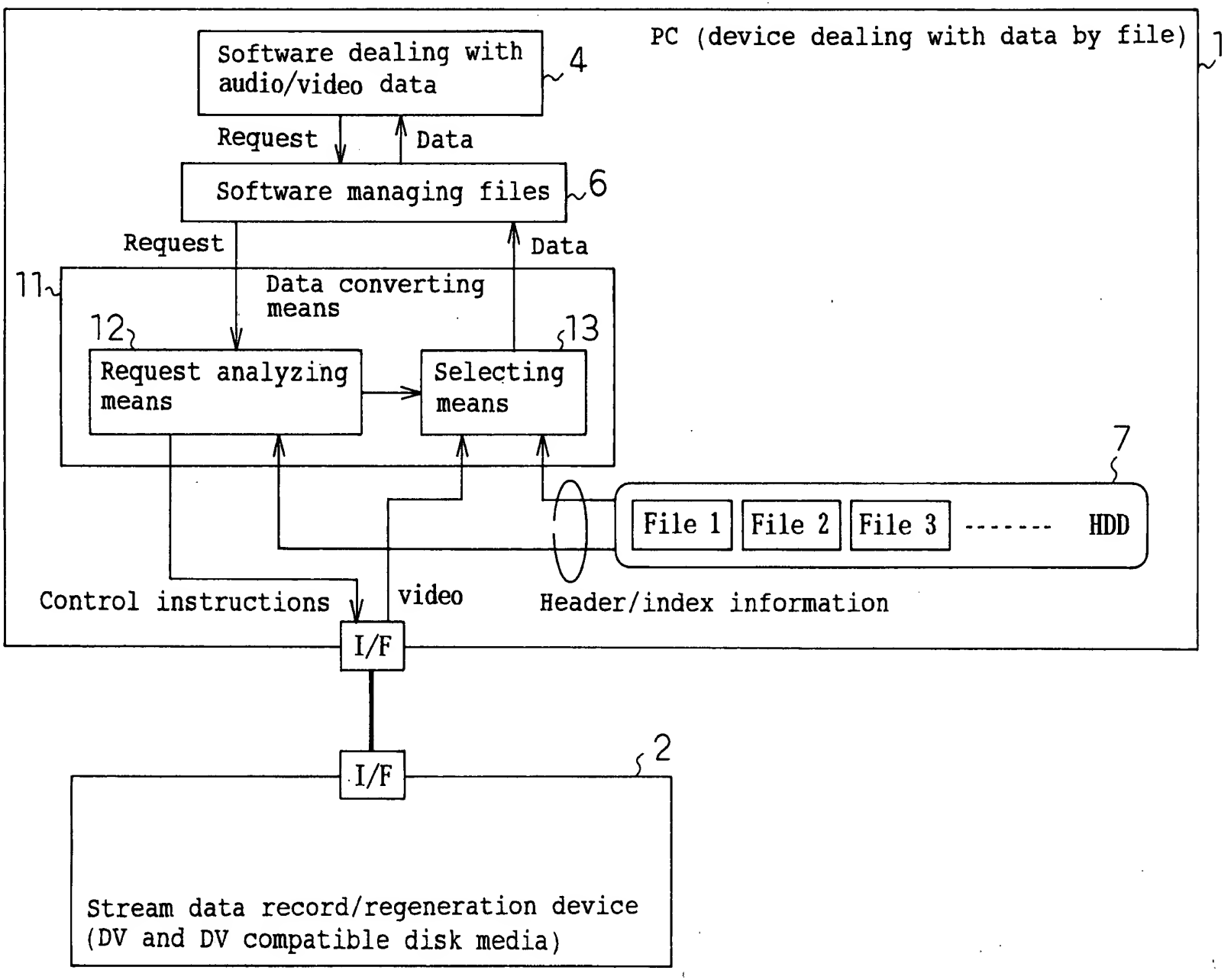

PC (device dealing with data by file)
1
Software dealing with audio/video data
4
Request
Data
Software managing files
6
Request
Data
11
Data converting means
12
Request analyzing means
13
Selecting means
7
File 1
File 2
File 3
HDD
Control instructions
video
Header/index information
I/F
I/F
2
Stream data record/regeneration device
(DV and DV compatible disk media)

Fig. 13

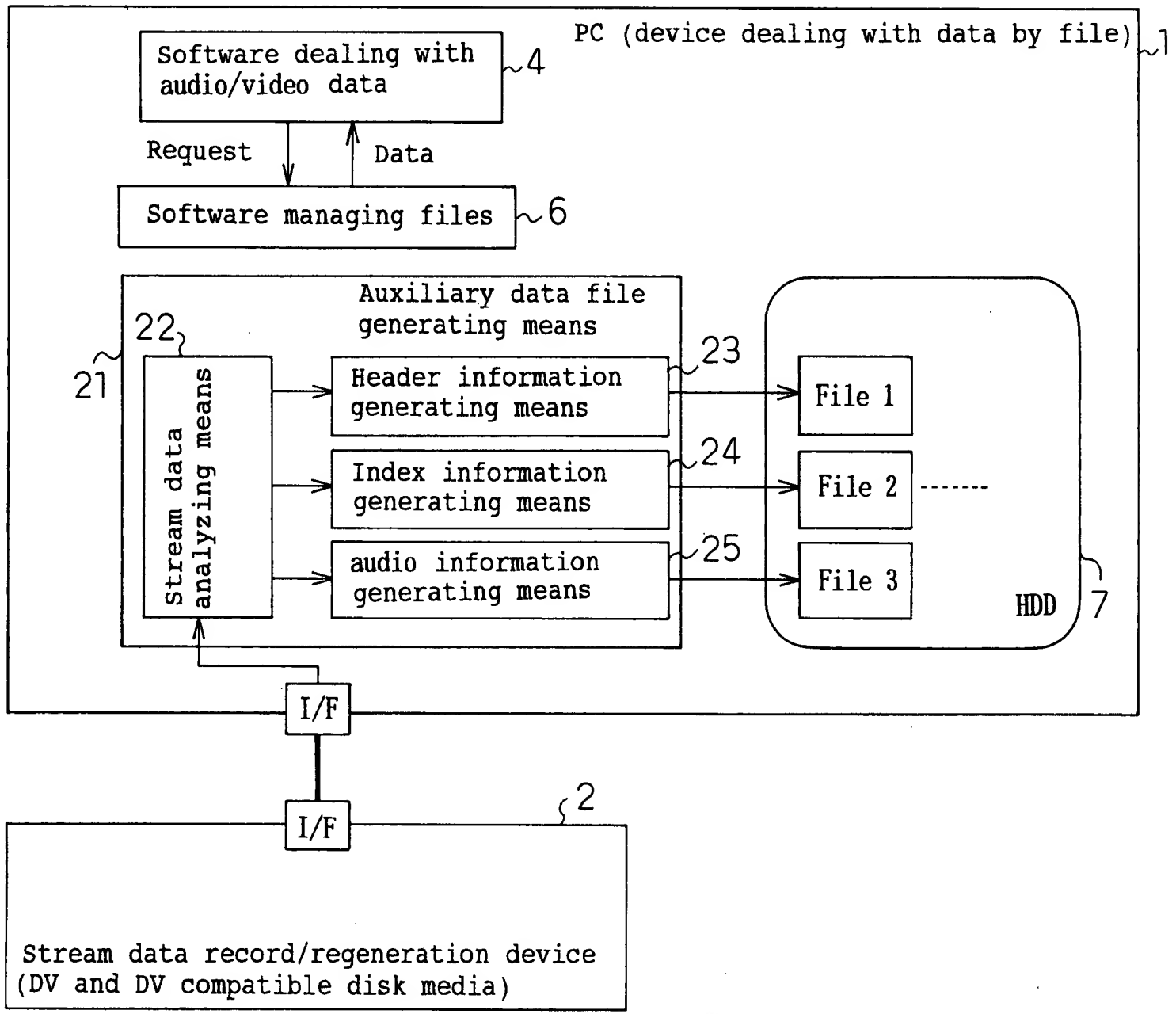

PC (device dealing with data by file)
1
Software dealing with audio/video data
4
Request
Data
Software managing files
6
Auxiliary data file generating means
22
21
Stream data analyzing means
Header information generating means
23
Index information generating means
24
audio information generating means
25
File 1
File 2
File 3
HDD
7
I/F
I/F
2
Stream data record/regeneration device (DV and DV compatible disk media)

Fig. 14

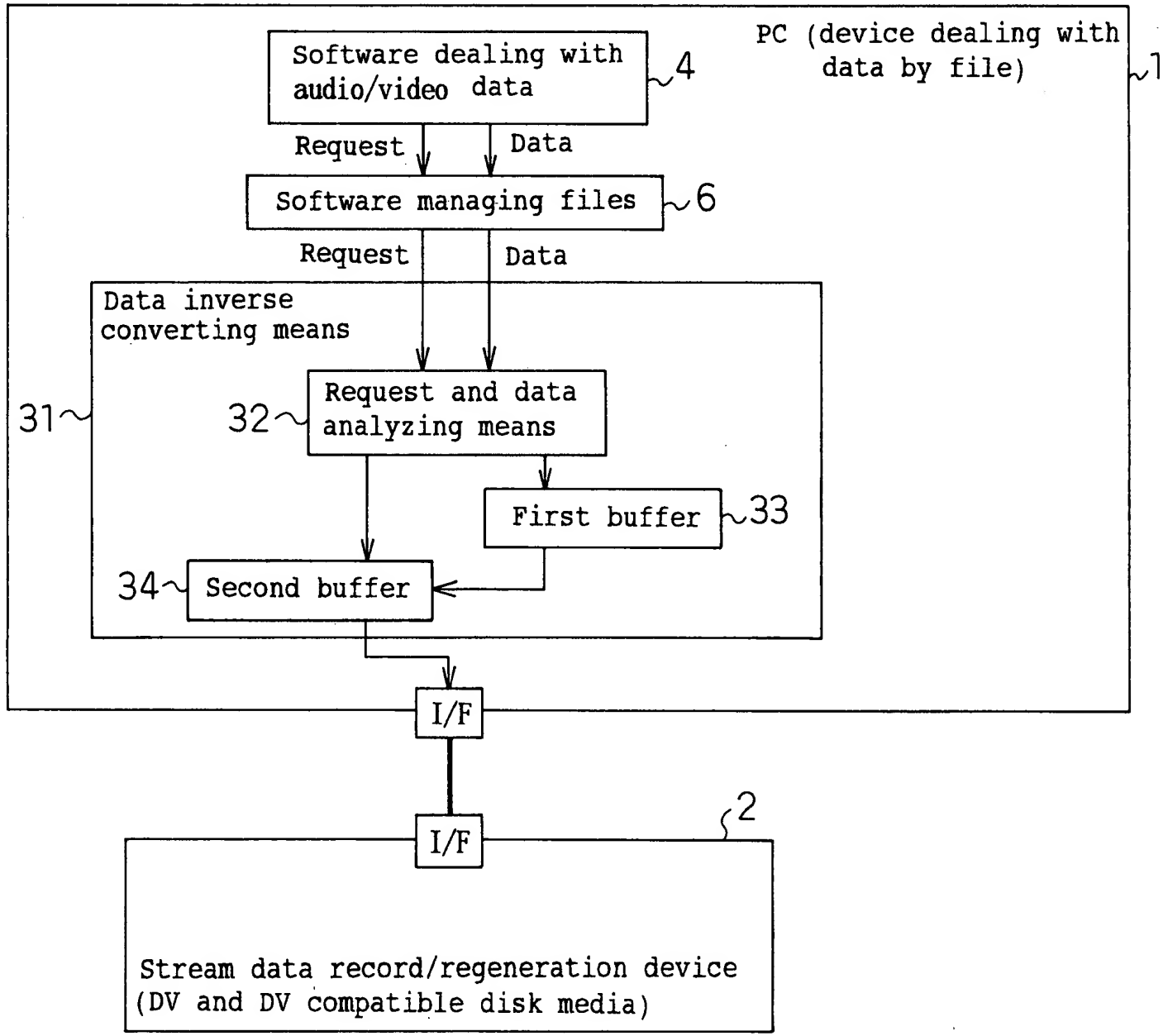


Fig. 15

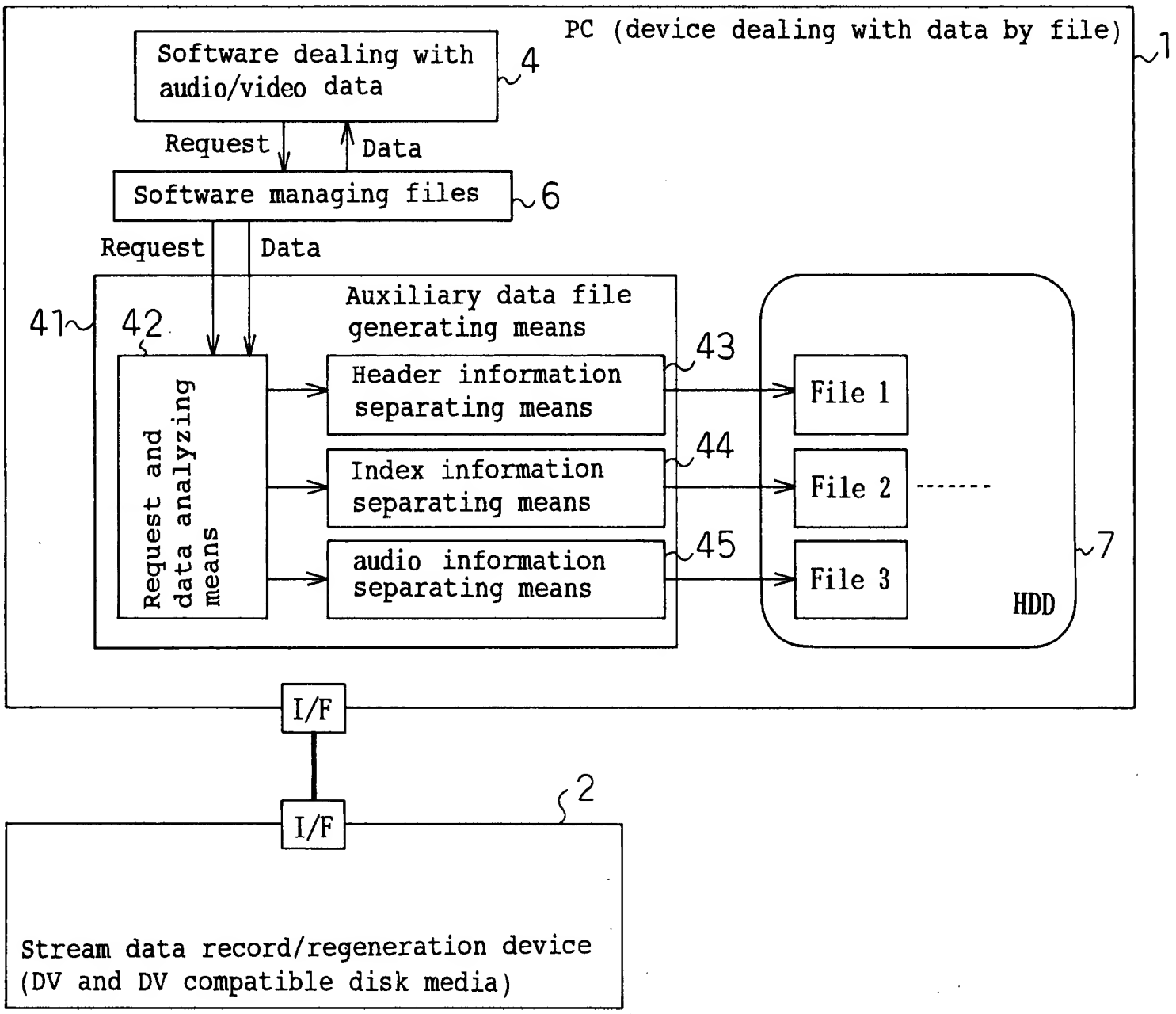

PC (device dealing with data by file)
1
Software dealing with audio/video data
4
Request
Data
Software managing files
6
Request
Data
41
42
Auxiliary data file generating means
Request and data analyzing means
Header information separating means
43
Index information separating means
44
audio information separating means
45
File 1
File 2
File 3
HDD
7
I/F
I/F
2
Stream data record/regeneration device
(DV and DV compatible disk media)

Fig. 16 (a)

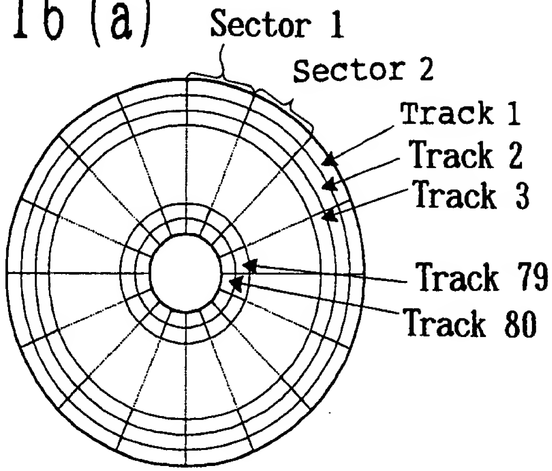


Fig. 16 (b)

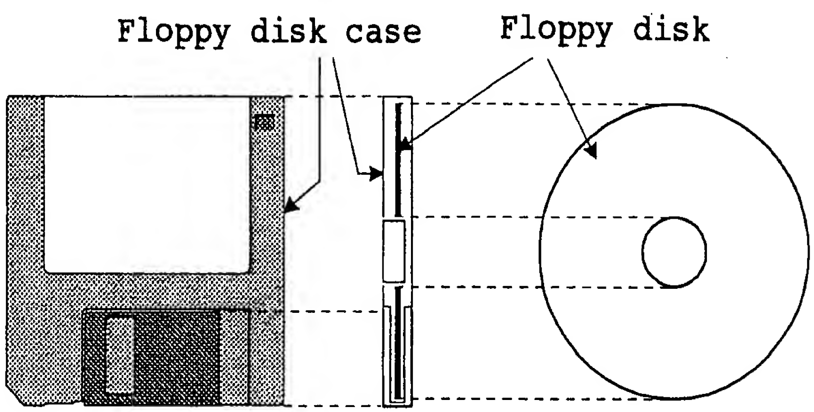


Fig. 16 (c)

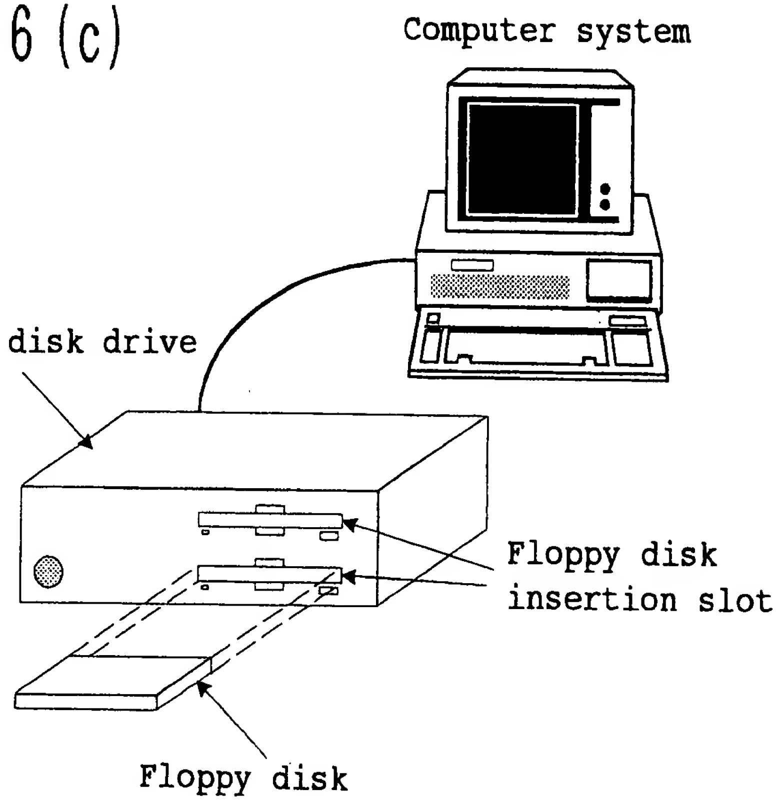


Fig. 17

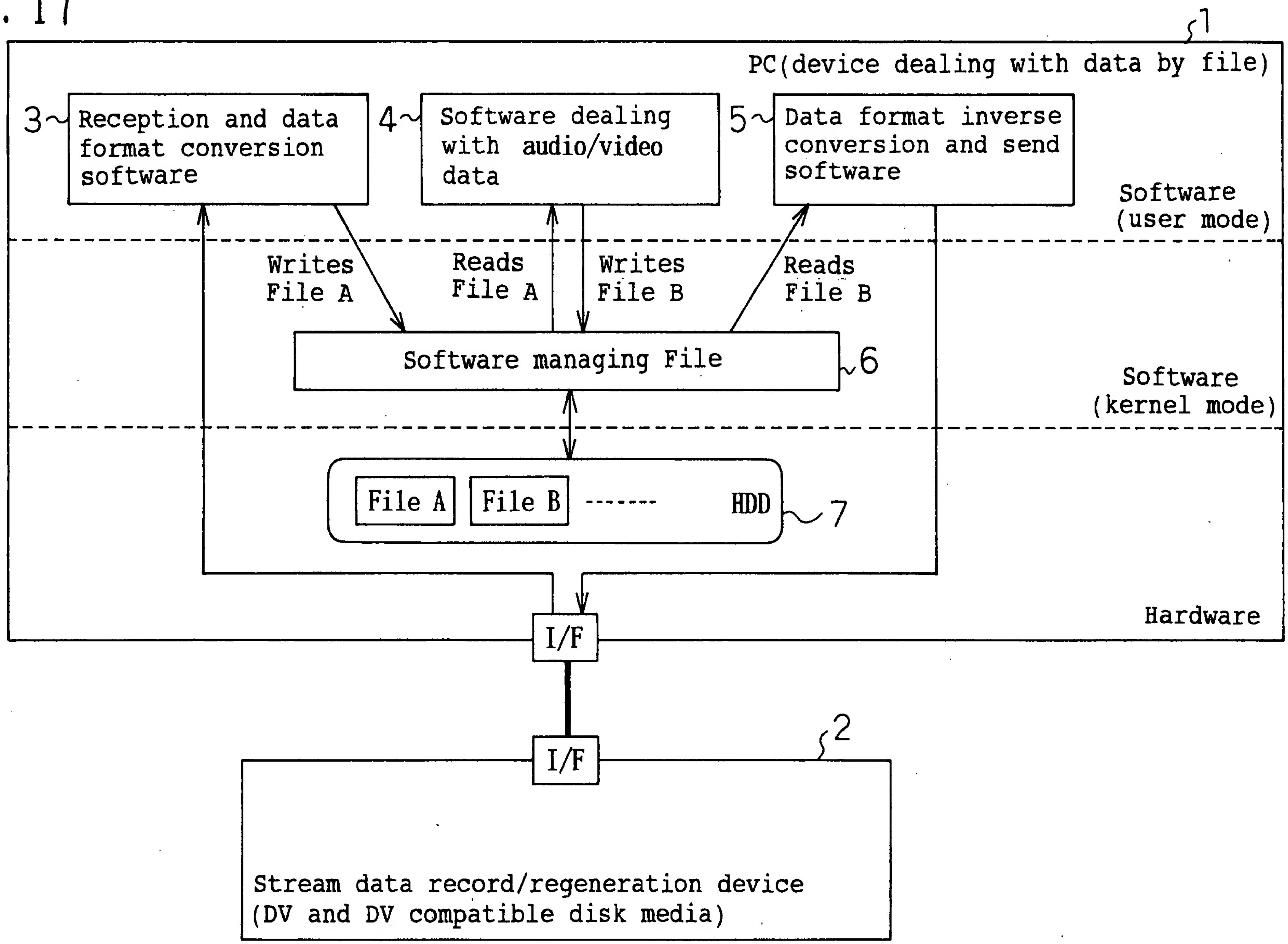


Fig. 18

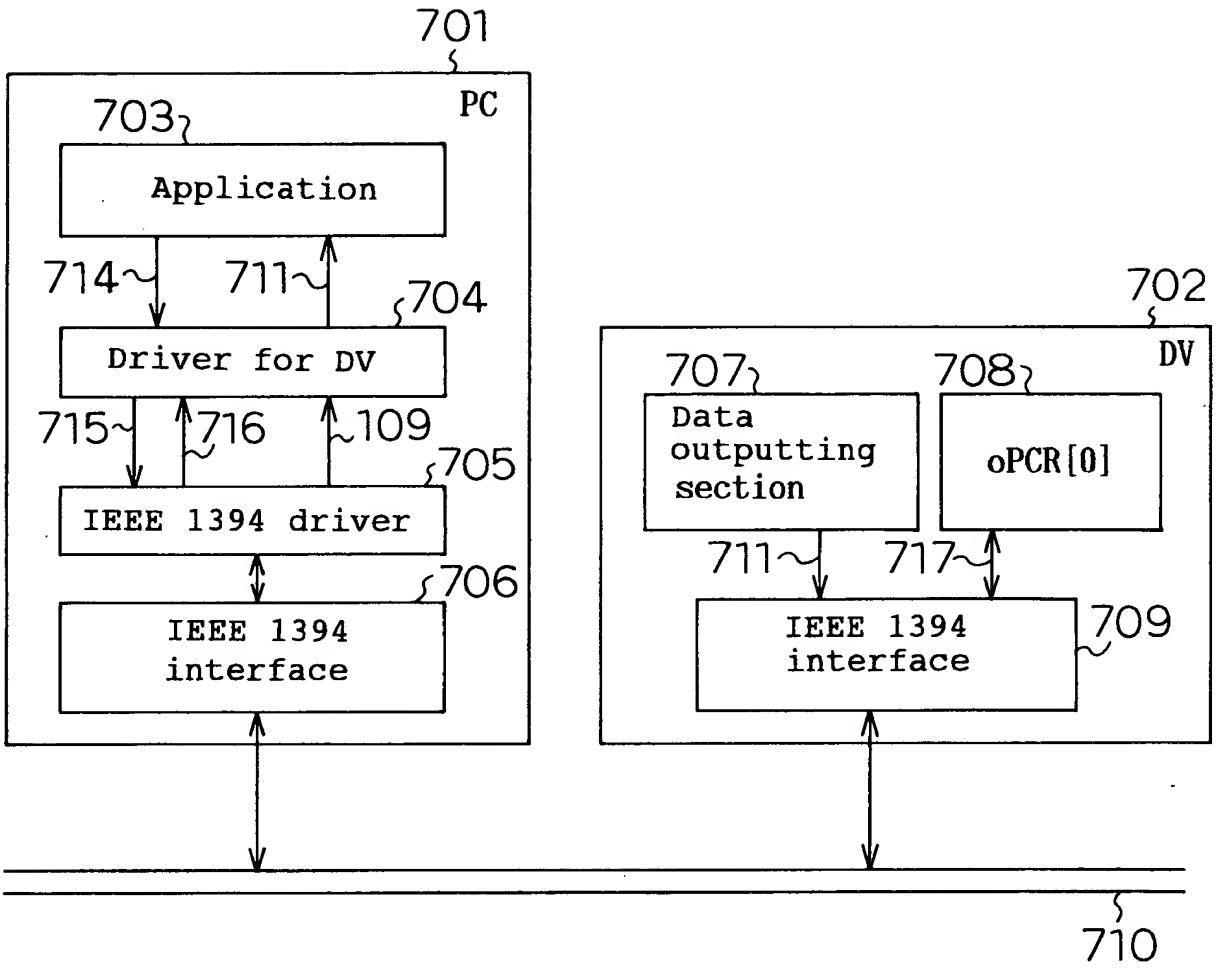
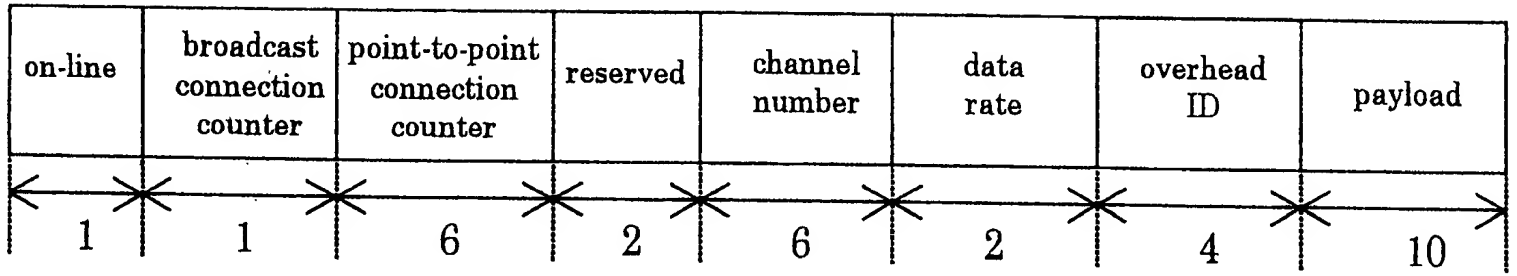
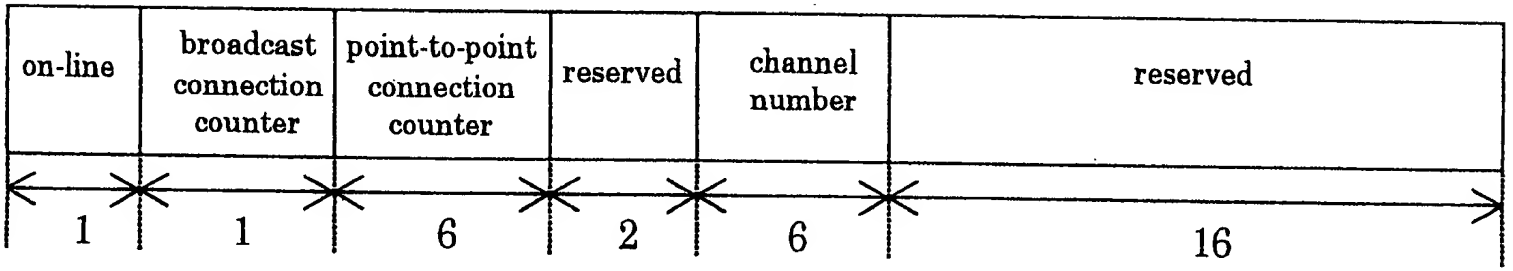

701
PC
703
Application
714
711
704
Driver for DV
715
716
109
705
IEEE 1394 driver
706
IEEE 1394 interface
702
DV
707
Data outputting section
708
oPCR[0]
711
717
IEEE 1394 interface
709
710

Fig. 19



(in bits)

Fig. 20



(in bits)

Fig. 21

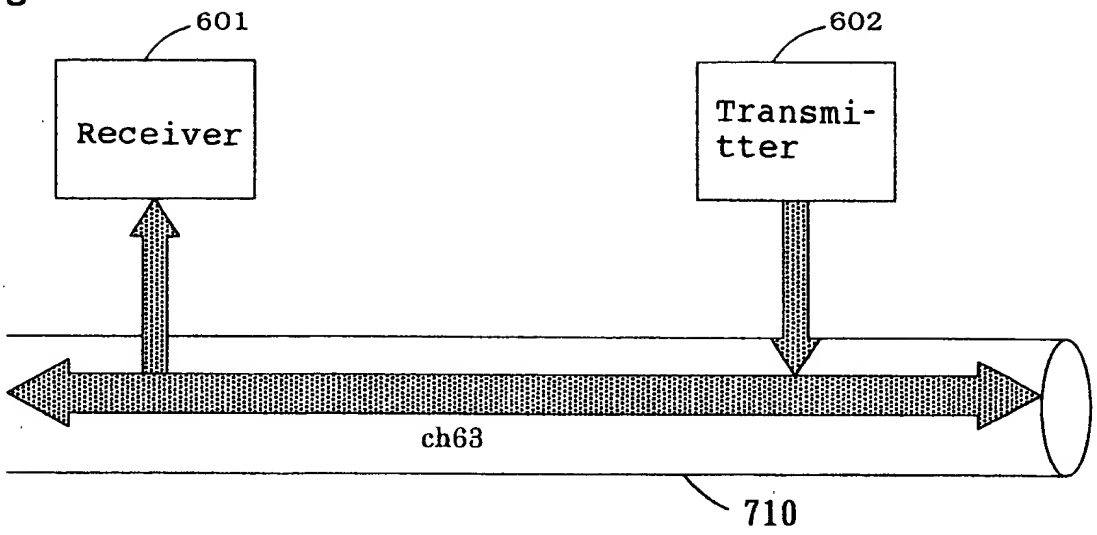

601
602
Receiver
Transmi-
tter
ch63
710

Fig. 22

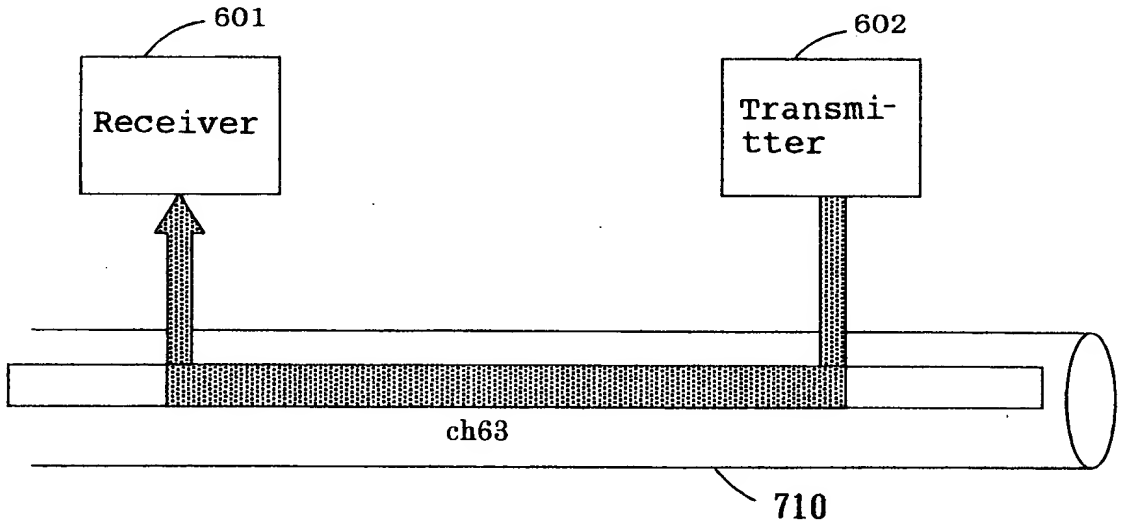

601
602
Receiver
Transmi-
tter
ch63
710

Fig. 23

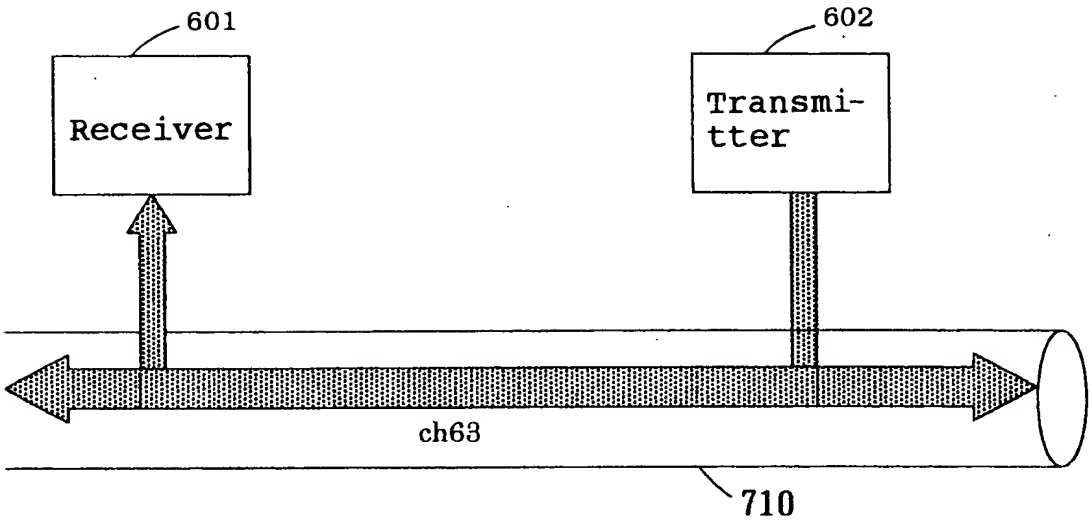


Fig. 24

	iPCR[0] of receiver 601			oPCR[0] of transmitter 602		
	bcc	p2p	channel number	bcc	p2p	channel number
Initial condition	0	0	63	0	0	63
FIG. 6	1	0	63	1	0	63
FIG. 7	0	1	63	0	1	63
FIG. 8	1/0	1	63	1	1	63

Fig. 25

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-regeneration of DV 702	1	0	63	DV 702 allocates resources
Start-of-reception of PC 701	1	0	63	
Stop-of-reception of PC 701	1	0	63	
Stop-of-regeneration of DV 702	0	0	63	DV 702 releases resources

Fig. 26

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-regeneration of DV 702	1	0	63	DV 702 allocates resources
Start-of-reception of PC 701	1	0	63	
Stop-of-regeneration of DV 702	0	0	63	DV 702 releases resources
Stop-of-reception of PC 701	0	0	63	

Fig. 27

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-reception of PC 701	0	1	0	PC 701 allocates resources
Start-of-regeneration of DV 702	1	1	0	
Stop-of-regeneration of DV 702	0	1	0	
Stop-of-reception of PC 701	0	0	63	PC 701 releases resources

Fig. 28

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-reception of PC 701	0	1	0	PC 701 allocates resources
Start-of-regeneration of DV 702	1	1	0	
Stop-of-reception of PC 701	1	0	63	
Stop-of-regeneration of DV 702	0	0	63	DV 702 releases resources

Fig. 29

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-regeneration of DV 702	1	0	63	DV 702 allocates resources
Start-of-reception of PC 701	1	1	63	
Stop-of-reception of PC 701	1	0	63	
Stop-of-regeneration of DV 702	0	0	63	DV 702 allocates resources

Fig. 30

	bcc	p2p	channel number	Comments
Initial condition	0	0	63	
Start-of-regeneration of DV 702	1	0	63	DV 702 allocates resources
Start-of-reception of PC 701	1	1	63	
Stop-of-regeneration of DV 702	0	1	63	
Stop-of-reception of PC 701	0	0	63	